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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/915,658	•	07/25/2001	Gundu M. Sabde	500163.04	9163
27076	7590	10/14/2004		EXAMINER	
		NEY LLP ROPERTY DEPARTI	CHEN, KI	CHEN, KIN CHAN	
SUITE 340		OPEKII DEFAKII	ART UNIT	PAPER NUMBER	
1420 FIFTI	AVENU	JE	1765		
SEATTLE,	WA 98	101	DATE MAILED: 10/14/200	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/915,658	SABDE ET AL.
Office Action Summary	Examiner	Art Unit
	Kin-Chan Chen	1765
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with	n the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a repoly within the statutory minimum of thirty will expire SIX (6) MONT te, cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).
Status		
 1) □ Responsive to communication(s) filed on 16 / 2a) □ This action is FINAL. 2b) □ This action is FINAL. 3) □ Since this application is in condition for allows closed in accordance with the practice under 	is action is non-final. ance except for formal matte	
Disposition of Claims		
4) ☐ Claim(s) 53,54 and 62-69 is/are pending in the 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 53,54 and 62-69 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/	awn from consideration.	
Application Papers	n	
9) The specification is objected to by the Examination 10) The drawing(s) filed on is/are: a) acceptable and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examination.	ccepted or b) objected to be e drawing(s) be held in abeyand ction is required if the drawing(s	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Bure. * See the attached detailed Office action for a list	nts have been received. nts have been received in Application of the property documents have been a lau (PCT Rule 17.2(a)).	oplication No received in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 071204.	Paper No(s	ummary (PTO-413) /Mail Date formal Patent Application (PTO-152)

Application/Control Number: 09/915,658

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 53, 54, 62, 63, 66, and 67 are rejected under 35 U.S.C. 102(e) as being anticipated by Chopra (US 6,276,996).

Chopra teaches a lubricating planarizing solution. A non-abrasive solution without abrasive particles may include CARBOPOL ® as a thickener to achieve desired viscosity in a range from 10 cp to 20 cp, which reads on applicant's limitation of claims 53, 62, 63, see col. 3, lines 11-16. Ammonium hydroxide (so-called water and ammonia in the instant claims 54, 66, 67) may also be used in the solution, see col. 3, lines 55-57; col. 4, lines 1-3.

The examiner would like to remind applicant that a commonly owned reference is only disqualified when MPEP706.02(I)(3) A, B, and C are all met. (A) evidence is filed (to show commonly owned), (B) the reference is qualified as a prior art under 102(e), and (C) rejection under 35 USC § 103.

The burden of establishing that subject matter is disqualified as prior art is placed on applicants once examiners have established a prima facie case of obviousness based on the subject matter.

The fact that the reference and the application have the same assignee is **not**, by itself, sufficient evidence. There must be a statement that the common ownership was "at the time the invention was made."

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 64, 65, 68, and 69 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chopra (US 6,276,996).

Chopra teaches a lubricating planarizing solution. A non-abrasive solution without abrasive particles may include CARBOPOL ® as a thickener to achieve desired viscosity in a range from 10 cp to 20 cp. Ammonium hydroxide (so-called water and ammonia in the instant claims) may also be used in the solution, see col. 3, lines 55-57; col. 4, lines 1-3.

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The claimed invention differs from Chopra by specifying the concentration of the lubricant-additive in the lubricating planarizing solution. However, the concentration and composition of each ingredient in the solution is commonly determined by routine experiment. The process of conducting routine optimizations so as to produce an expected result is obvious to one of ordinary skill in the art. In the absence of showing criticality or new, unexpected results, it is the examiner's position that a person having ordinary skill in the art at the time of the claimed invention would have found it obvious to perform routine experiments by using various concentrations in order to reduce the friction between the fixed abrasive article and the semiconductor wafer surface during the planarization and provide the satisfactory planarization.

Changes in compositions, temperature, concentrations, or other process conditions of a process do not impart patentability unless the recited ranges are critical (i.e., they produce a new and unexpected result that differs in kind and not merely in degree from the result of the prior art). *In re Woodruff*, 16USPQ2d 1934,1936 (Fed. Cir.1990); *In re Hoeschele*, 406 F.2d 1403, 160 USPQ 809; *In re Boesch*, 617 F.2d 272, 205 USPQ 215 (CCPA 1980). MPEP 2144.05 IIA.

Response to Arguments

5. Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kin-Chan Chen whose telephone number is (571) 272-1461. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nadine Norton can be reached on (571) 272-1465. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

October 5, 2004

Kin-Chan Chen Primary Examiner Art Unit 1765

K-C C